



**THIRD SPACE
LEARNING**

Christmas Math Quiz

20 Grade 4 / Grade 5 math
questions for some festive fun

Christmas Math Quiz - Questions

- 1 This table shows the average number of turkeys bought at 4 different supermarkets. Which supermarket sells the lowest number of turkeys?

Kroger sells 890,501
Whole Foods sells 809,550
Aldi sells 1,368,250
Publix sells 809,000

Answer

- 2 A bakery makes 737 mince pies. They sell 483 in the morning and the rest after lunch. How many do they sell after lunch?

Answer

- 3 The 2022 Christmas tree in Rockefeller Center in New York City is 25 meters tall. How tall is it in centimeters?

Answer

- 4 This table shows the number of Christmas cards sent in 5 cities near Boston.

Town	Cards sent
Wellesley	37,548
Newton	65,570
Northborough	18,996
Chelsea	48,018
Brookline	54,253

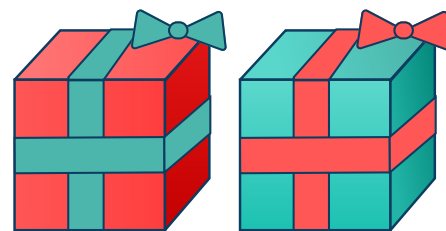
What is the combined total of the two towns which sent the most?

- 5 In the city of Somerville, they sent 14,198 more Christmas cards than in Brookline. Complete the table to show how many they sent in Somerville.

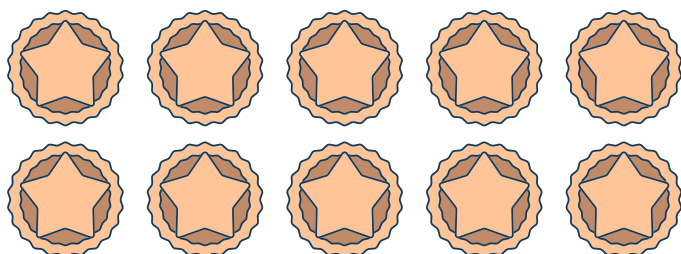
Town	Cards sent
Wellesley	37,548
Newton	65,570
Northborough	18,996
Chelsea	48,018
Brookline	54,253
Somerville	

- 6 Add these fractions together to find your hidden fraction present

$$\frac{1}{8} + \frac{2}{4} + \frac{4}{16} = \frac{\boxed{}}{\boxed{}}$$



- 7 10 mince pies cost \$6.90



5 mince pies and a candy cane cost \$3.76



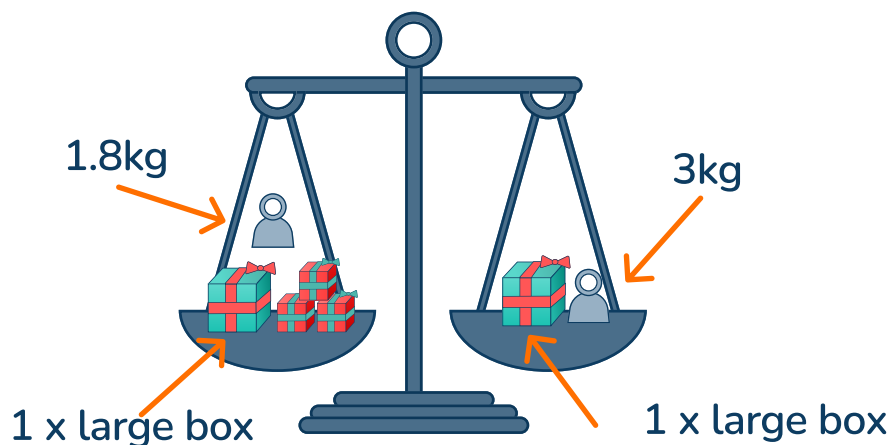
How much does one candy cane cost?

- 8 Mrs Allen buys 22 boxes of chocolates to give out at Christmas. She spends \$110. How much did each box cost?

22 x

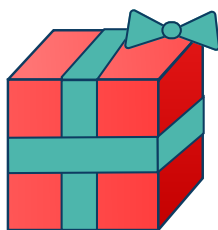
= \$110

- 9 This diagram shows some Christmas presents on a balance scale. Each small present is identical. Find the weight of one small box, in grams.



- 10 A Lego set has been put on sale before Christmas for half-price. It now costs \$36.45. What was the original price of the Lego set?

- 11 Determine what two different prime numbers are hidden under each Christmas present to give the answer below.

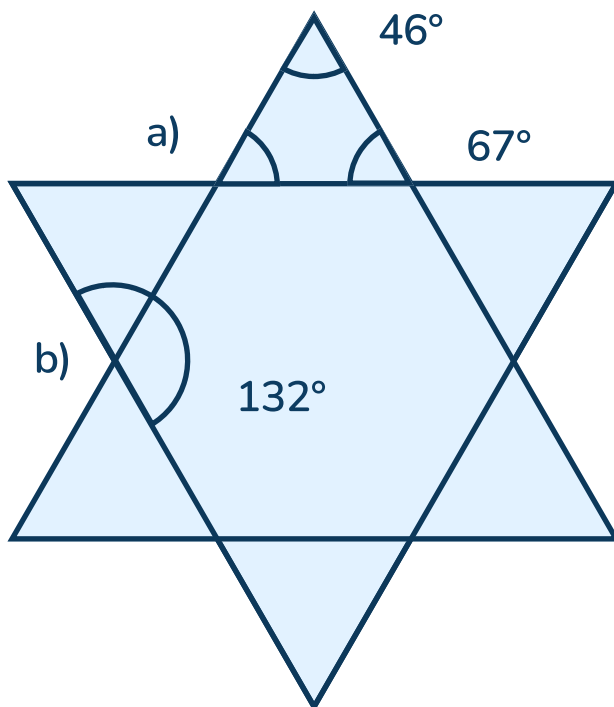

 $\times$

 $= 187$

- 12 A Christmas present delivery service charges \$8.25 to deliver packages weighing up to 15kg, and then \$0.45 for every 500g over that weight. How much would it cost to deliver a package weighing 20kg?

- 13 In the United Kingdom in 2015, 8 million Christmas trees were used. The year before, ten thousand fewer trees were used. How many Christmas trees were used in the UK in 2014?

- 14 Calculate the size of angles a and b in star below



a =

b =

- 15 The average low temperature in the North Pole in December is -5°F . If the temperature in the North Pole on Christmas Day is 9 degrees less, what will the temperature be?

 $^{\circ}\text{F}$

- 16 Ali is so excited on Christmas Eve that he goes to bed at ten to 6 in the evening. His analog watch shows this time:



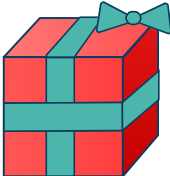
His older sister, Sarah, goes to bed an hour and 6 minutes later. She has a digital watch that shows the time. What time does her watch show when she goes to bed?

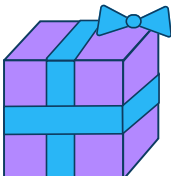
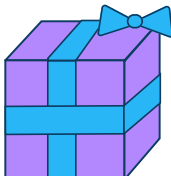
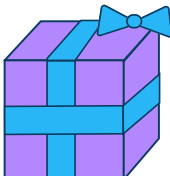
- 17 Cara and her mom are traveling to visit her grandparents on Christmas Eve in Dallas, Texas. They live 195 miles away in Austin, Texas. They drive for 68.4 miles and then they stop to get lunch.

After another 89.2 miles, they have to stop to buy a last minute Christmas present for Grandad. How far do they have left before they get to Cara's grandparents?

- 18 Find the value of the purple and blue Christmas presents:

 +  +  = \$12.75

 +  +  = \$21.05

 +  +  +  = \$41.40



- 19 A factory needs to make 70,632 Christmas candies for next day delivery. The morning workers make 26,935 candies and the afternoon workers make 27,308. How many Christmas candies will the nighttime workers need to make?



- 20 This is a recipe for making a Christmas chocolate cake:

- 2 cups white sugar
- 1 $\frac{3}{4}$ cups all-purpose flour
- $\frac{3}{4}$ cup unsweetened cocoa powder
- 1 $\frac{1}{2}$ teaspoons baking powder
- 1 $\frac{1}{2}$ teaspoons baking soda
- 1 teaspoon salt
- 2 eggs
- 1 cup milk
- $\frac{1}{2}$ cup vegetable oil
- 2 teaspoons vanilla extract

Sophie wants to make 8 cakes for her family Christmas party. How much flour will she need?

Christmas Math Quiz - Answer Sheet

- 1 This table shows average number of turkeys bought at 4 different supermarkets. Which supermarket sells the lowest number of turkeys?
Publix sells the lowest amount of turkeys- 809,000
- 2 A bakery makes 737 mince pies. They sell 483 in the morning and the rest after lunch. How many do they sell after lunch?
254 mince pies
- 3 The 2022 Christmas tree in Rockefeller Center in New York City is 25 meters tall. How tall is it in centimeters?
2,500 cm
- 4 What is the combined total of the two towns which sent the most?
119,823 from Newton and Blackline
- 5 In the town of Somerville, they sent 14,198 fewer Christmas cards than in Brookline. Complete the table to show how many they sent in Somerville.
Somerville sent 68.451 Christmas cards
- 6 Add these fractions together to find what number is hidden in each present
 $\frac{7}{8}$ or $\frac{14}{16}$
- 7 How much does one candy cane cost?
One candy cane costs \$0.31
- 8 Mrs Allen buys 22 boxes of chocolates to give out at Christmas. She spends \$110. How much did each box cost?
Each box costs \$5
- 9 This diagram shows some Christmas presents on a balance scale. Each small present is identical. Find the weight of one small box, in grams.
One small parcel weighs 400g

- 10 A Lego set has been put on sale before Christmas for half-price. It now costs \$36.45. What was the original price of the Lego set?

The original price of the Lego set was \$72.90

- 11 Determine what two different prime numbers are hidden under each Christmas present to give the answer below.

11 and 17

- 12 A Christmas present delivery service charges \$8.25 to deliver packages weighing up to 15kg, and then \$0.45 for every 500g over that weight. How much would it cost to deliver a package weighing 20kg?

It would cost \$12.75

- 13 In the United Kingdom in 2015, 8 million Christmas trees were used. The year before, ten thousand fewer trees were used. How many Christmas trees were used in the UK in 2014?

The UK used 7,990,000 Christmas trees in 2014

- 14 Calculate the size of angles a and b in star

The size of angle a is 67°

The size of angle b is 48°

- 15 The average low temperature in the North Pole in December is -5°F . If the temperature in the North Pole on Christmas Day is 9 degrees less, what will the temperature be?

The new temperature will be -14°

- 16 What time does her watch show when she goes to bed?

Her watch shows 6:56

17 How far do they have left before they get to Cara's grandparents?

They have 37.4 miles to go before they get to Cara's grandparents

18 Find the value of the purple and blue Christmas presents:

The red present is \$4.25, the purple present is \$8.40 and the blue present is \$11

19 How many Christmas candies will the nighttime workers need to make?

The nighttime workers will need to make 16,389 Christmas candies

20 How much flour will Sophie need?

Sophie will need 14 cups of flour.

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